



Body Carnival

**COMING TO THE
WESTERN SCIENCE CENTER
JANUARY 20TH, 2013**

Body Carnival:

The Science and Fun of Being You

uses carnival-themed components to explore the connections between perception and the laws of physics within the human body.

In 2,000-square-feet of exhibition space, visitors can learn about themselves while investigating force, light, color and more.

Eighteen components invite visitors to:

- Crawl through a giant artery to see (and hear) the effects of plaque build-up on blood flow;
- Test their balance as they walk through the 10-foot long Dizzy Tunnel, which simulates a rotating star field;
- Put on a pair of vision-distorting goggles and discover how sight affects the ability to walk straight;
- Experiment in the House of Color with different sources of light;
- “Hear” through their bones and muscles while learning how these transmit sound, and more!

SAMPLE ACTIVITIES



Entrance

The entrance tent welcomes visitors with exhibit name, description and NSF sponsor info. Fun house mirrors, located on the back of columns provide an interactive element.



Get a Grip

Two sides of the table are equipped with hand models that demonstrate how tendons enable our hands to function. The third side has arms of three different lengths so visitors can experience how arm length affects leverage.



Feel Music

Cover your ears and lean back against the sound cushion to “hear” through your bones and muscles. Wheelchairs can use a portable sound cushion attached to the left side of this exhibit.



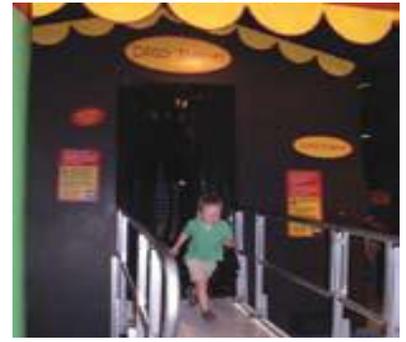
Wacky Wall

Pulling on a rope makes the wall move from side to side, while at the same time, participants can try to stand on one foot and see if they can maintain their balance as they watch the wall move.



House of Colors

Experiment with sources of light to see the effects of varying wavelengths on the colors of different objects. Lights available for experimentation include white, monochromatic, red, blue and green.



Dizzy Tunnel

Walk through a rotating star field and try to maintain your balance. The walk is 10 feet long and three feet wide. Ramps are available to make this exhibit component wheelchair accessible.



Tunnel of Blood

Crawl through a giant coronary artery with sculpted walls that simulate the build-up of arterial plaque. See and hear the effects of blood flow as it's decreased by plaque build-up.



Walk the Plank

Walk a 12-foot long balance beam with or without weights. Exhibit includes changeable beam and a pirate character stanchion with weights in a box at his feet.



Calculation Station

Calculate how much water you drink daily, your heart rate and the mathematical relationship between your arm span and height.



Goofy Goggles

Put on a pair of goggles with vision-distorting lenses and attempt to follow a zigzag yellow line on the floor.



Body Challenge

Three module components for visitors to compare their physical and neural activities with others: Hang Time, Think Fast! and Sit and Reach.



Balancing Act

Explore how the center of gravity and the base of an object affect stability at this four-sided table station.